

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization International Bureau



(43) International Publication Date  
6 October 2005 (06.10.2005)

PCT

(10) International Publication Number  
**WO 2005/092447 A2**

- (51) International Patent Classification<sup>7</sup>: **A62D 3/00**
- (21) International Application Number:  
PCT/GB2005/001088
- (22) International Filing Date: 22 March 2005 (22.03.2005)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data:  
0406532.2 24 March 2004 (24.03.2004) GB
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- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

**Published:**

- without international search report and to be republished upon receipt of that report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

WO 2005/092447 A2

(54) Title: TREATMENT OF ELEMENTAL MERCURY

(57) **Abstract:** The invention concerns a method for the stabilisation and disposal of elemental mercury, the method comprising treating the elemental mercury with a cementitious particulate filler material which additionally comprises an immobilisation treatment. In a preferred embodiment, the immobilisation treatment comprises an amalgamation treatment prior to the treatment with a cementitious particulate filler material. Preferably, the amalgamation is carried out using copper powder and dilute nitric acid and the cementitious particulate filler material comprises a mixture of Ordinary Portland Cement and Blast Furnace Slag. The method of the invention is carried out conveniently and rapidly, and the end product, after allowing to cure, is non-toxic, insoluble in water, easily handled, and immediately suitable for disposal. The method is particularly applicable to the safe disposal of elemental mercury which is contaminated with radioactive materials.